ABSTRACT

Systems and methods for enabling arbitrary components to transfer current, contextual data between each other without requiring prior knowledge of each other. The contextual data may include executable computer language instructions or a type, operating status, identity, location, administrative domain or environment information of the components or its users. The system includes a set of arbitrary components associated with one or more universal interfaces. The one or more universal interfaces may include mobile code, a contextual interface, a notification interface, a user interface and a data source interface. A first component at least has a universal contextual interface. A second component may invoke the universal contextual interface and execute associated instructions to transfer contextual data between the first component and the second component.